Title (en)

ULTRASOUND PROBE

Title (de)

ULTRASCHALLSONDE

Title (fr)

SONDE À ULTRASONS

Publication

EP 2527004 A4 20161228 (EN)

Application

EP 10843257 A 20100715

Priority

- KR 20100004542 A 20100118
- KR 2010004601 W 20100715

Abstract (en)

[origin: EP2527004A1] The present invention relates to an ultrasound therapy system using high-intensity focused ultrasound. The present invention improves ultrasound and heat release characteristics and provides an ultrasound probe which easily performs manufacturing and maintenance processes. According to the present invention, a housing is recessed on the inward side around the upper-part edge. A plurality of mounting holes are uniformly formed from the outside at a constant radius to the edge in the center of the upper part. And a plurality of probe units are respectively installed to the plurality of mounting holes to form a sphere in the upper part of the housing wherein a first connection pin is protruded to the lower part of the housing in the lower part of a copper connection bar and a rear block, a piezoelectric wafer, and an acoustic matching layer are sequentially stacked on the upper part of the connection bar. A grounding film can be stacked on the acoustic matching layer. The upper surface of the plurality of probe units installed on the housing, the grounding film, forms a sphere.

IPC 8 full level

A61N 7/00 (2006.01); **A61B 18/00** (2006.01); **A61N 7/02** (2006.01); **B06B 1/06** (2006.01)

CPC (source: EP US)

A61N 7/02 (2013.01 - EP US); **B06B 1/0637** (2013.01 - EP US); A61N 2007/0065 (2013.01 - EP US); A61N 2007/0078 (2013.01 - EP US); A61N 2007/0095 (2013.01 - EP US)

Citation (search report)

- [XI] EP 0310380 A2 19890405 - TOSHIBA KK [JP]
- [A] US 2002156373 A1 20021024 - WAKABAYASHI KATSUHIRO [JP], et al
- See references of WO 2011087191A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2527004 A1 20121128; **EP 2527004 A4 20161228**; **EP 2527004 B1 20180905**; JP 2013517087 A 20130516; JP 5503022 B2 20140528; KR 101173276 B1 20120813; KR 20110084801 A 20110726; US 2012285251 A1 20121115; US 8881592 B2 20141111; WO 2011087191 A1 20110721

DOCDB simple family (application)

EP 10843257 A 20100715; JP 2012549916 A 20100715; KR 20100004542 A 20100118; KR 2010004601 W 20100715; US 201013521997 A 20100715